

WEST**End of Result Set**

Generate Collection

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File: DWPI

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TITLE: Television receiver with picture-in-picture facility, analyzes video and/or audio signal of program to detect event in program, so as to display automatically program containing event in picture-in-picture display

Basic Abstract Text (1):

NOVELTY - An input (20) receives the video and/or audio signal. A user interface (70) receives user input pertaining to an event. Detectors (80,19) analyzes the video and/or audio signal of a particular program to detect the event in the program. Upon the detection of event, a selector (90) provides the program containing the event to a PIP device (50) which automatically displays that program in PIP.

Basic Abstract Text (2):

DETAILED DESCRIPTION - The detector (80) is a text recognition device which scans the video information for text. The detector (19) analyzes MPEG-4 video information and detects the shape in the video information of the program. INDEPENDENT CLAIMS are also included for the following:

Basic Abstract Text (3):

(a) method for receiving audio and/or video signal;

Basic Abstract Text (4):

(b) apparatus for detecting an event in the video signal

Basic Abstract Text (5):

USE - For receiving video and/or audio material and automatically displaying particular program in PIP on detecting an event in the program.

Basic Abstract Text (6):

ADVANTAGE - Automatically provides the program having the detected event in PIP window even if the PIP window is not originally being displayed, thus enables the viewer to quickly swap the main display with the PIP window if the user wishes to view the PIP program. Detects a particular event occurring in another program, stores the frames making up the event in a memory, thereby capturing the event missed by viewer and then displays the event either as a PIP window or a main window but delayed by the memory. Enables the viewer to surf the web using web TV while monitoring in the video/audio program information for an exciting event. Also the viewer can monitor video/audio information while using a word processor program on a PC equipped with a tuner. The system is capable of monitoring several programs for the particular event by just increasing the number of tuners available.

Equivalent Abstract Text (1):

NOVELTY - An input (20) receives the video and/or audio signal. A user interface (70) receives user input pertaining to an event. Detectors (80,19) analyzes the video and/or audio signal of a particular program to detect the event in the program. Upon the detection of event, a selector (90) provides the program containing the event to a PIP device (50) which automatically displays that program in PIP.

Equivalent Abstract Text (2):

DETAILED DESCRIPTION - The detector (80) is a text recognition device which scans the video information for text. The detector (19) analyzes MPEG-4 video information and detects the shape in the video information of the program. INDEPENDENT CLAIMS are also

included for the following:

Equivalent Abstract Text (3):

(a) method for receiving audio and/or video signal;

Equivalent Abstract Text (4):

(b) apparatus for detecting an event in the video signal

Equivalent Abstract Text (5):

USE - For receiving video and/or audio material and automatically displaying particular program in PIP on detecting an event in the program.

Equivalent Abstract Text (6):

ADVANTAGE - Automatically provides the program having the detected event in PIP window even if the PIP window is not originally being displayed, thus enables the viewer to quickly swap the main display with the PIP window if the user wishes to view the PIP program. Detects a particular event occurring in another program, stores the frames making up the event in a memory, thereby capturing the event missed by viewer and then displays the event either as a PIP window or a main window but delayed by the memory. Enables the viewer to surf the web using web TV while monitoring in the video/audio program information for an exciting event. Also the viewer can monitor video/audio information while using a word processor program on a PC equipped with a tuner. The system is capable of monitoring several programs for the particular event by just increasing the number of tuners available.

Equivalent Abstract Text (12):

NOVELTY - An input (20) receives the video and/or audio signal. A user interface (70) receives user input pertaining to an event. Detectors (80,19) analyzes the video and/or audio signal of a particular program to detect the event in the program. Upon the detection of event, a selector (90) provides the program containing the event to a PIP device (50) which automatically displays that program in PIP.

Equivalent Abstract Text (13):

DETAILED DESCRIPTION - The detector (80) is a text recognition device which scans the video information for text. The detector (19) analyzes MPEG-4 video information and detects the shape in the video information of the program. INDEPENDENT CLAIMS are also included for the following:

Equivalent Abstract Text (14):

(a) method for receiving audio and/or video signal;

Equivalent Abstract Text (15):

(b) apparatus for detecting an event in the video signal

Equivalent Abstract Text (16):

USE - For receiving video and/or audio material and automatically displaying particular program in PIP on detecting an event in the program.

Equivalent Abstract Text (17):

ADVANTAGE - Automatically provides the program having the detected event in PIP window even if the PIP window is not originally being displayed, thus enables the viewer to quickly swap the main display with the PIP window if the user wishes to view the PIP program. Detects a particular event occurring in another program, stores the frames making up the event in a memory, thereby capturing the event missed by viewer and then displays the event either as a PIP window or a main window but delayed by the memory. Enables the viewer to surf the web using web TV while monitoring in the video/audio program information for an exciting event. Also the viewer can monitor video/audio information while using a word processor program on a PC equipped with a tuner. The system is capable of monitoring several programs for the particular event by just increasing the number of tuners available.

Standard Title Terms (1):

TELEVISION RECEIVE PICTURE PICTURE FACILITY ANALYSE VIDEO AUDIO SIGNAL PROGRAM DETECT EVENT PROGRAM SO DISPLAY AUTOMATIC PROGRAM CONTAIN EVENT PICTURE PICTURE DISPLAY